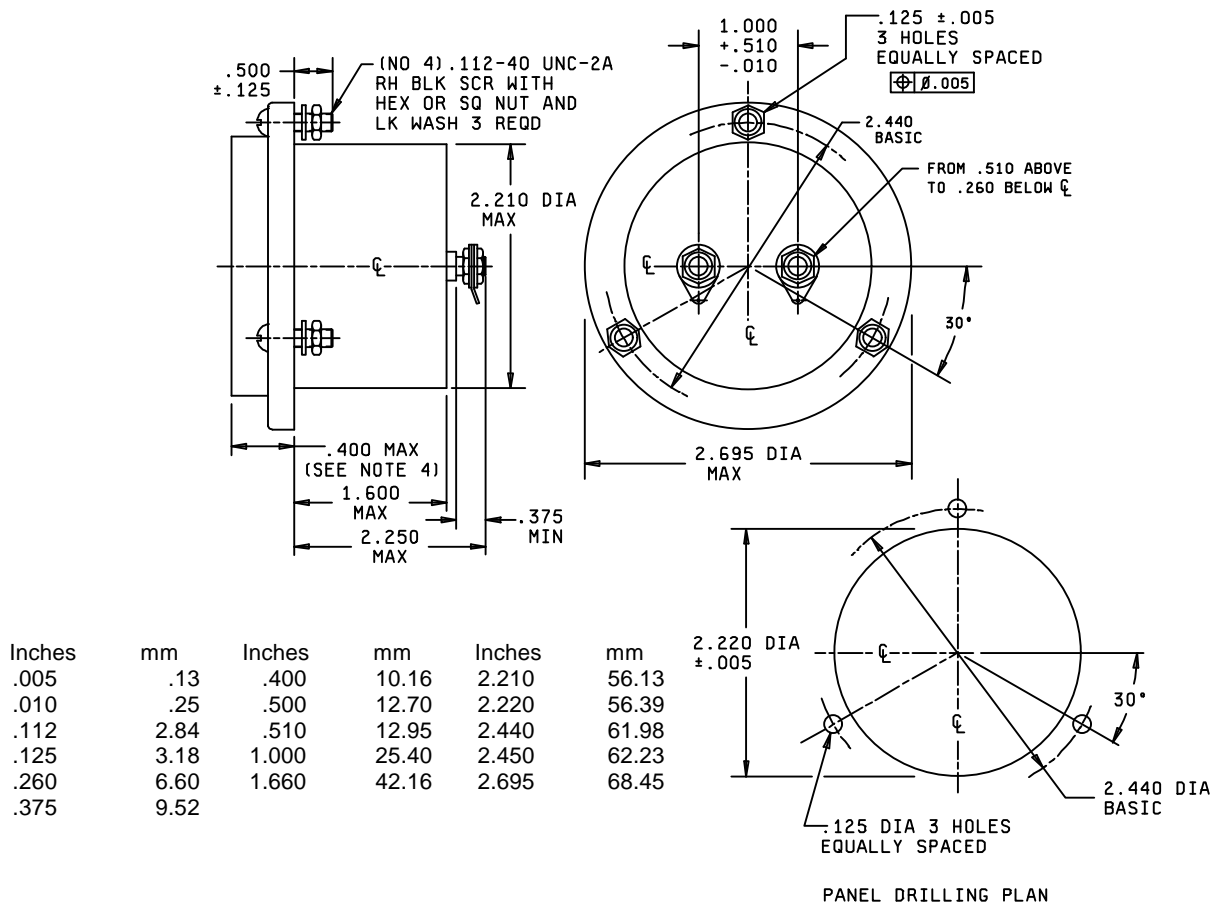


PERFORMANCE SPECIFICATION SHEET

METERS, ELECTRICAL INDICATING, PANEL TYPE, RUGGEDIZED:
 VOLTMETER AND AMMETER, DC LONG SCALE
 (FLUSH MOUNTING, ROUND FLANGE, 2½ INCH), STYLE 24

This specification is approved for use by all Departments
 and Agencies of the Department of Defense.

The requirements for acquiring the meters described herein
 shall consist of this specification and MIL-PRF-10304.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Tolerance is ± ½° on angles.
4. Maximum projection from front panel including mounting gaskets (if used).

FIGURE 1. Meter, panel type.

REQUIREMENTS:

(Readings expressed as a percent of full-scale value.)

Dimensions and configuration: See figure 1.

Weight: 25 ounces, maximum.

Full-scale ranges: See table I.

Scale:

Length: 4 inches minimum.

Pointer deflections: 250° minimum.

Position influence: ± 1 percent change for 60° rotation from normal operating position.Accuracy: ± 1 percent.

Overshoot: 50 percent.

Response time: 3 seconds maximum.

Power consumption (loss) (at end scale deflection):

Milliammeters 0-1 mA - 700 mV maximum.

Milliammeters above 1 mA - 150 mV maximum.

Voltmeter - 1 mA, nominal.

High temperature cycling:

 ± 4 percent. ± 0.5 percent permanent change.Temperature influence: ± 1 percent change.Exposure to extreme temperatures: ± 3 percent permanent change.

Overload capacity:

Momentary overload: ± 2 percent.

Sustained overload:

 ± 1 percent temporary zero shift. ± 1 percent permanent zero shift. ± 2 percent permanent change.

Dielectric withstanding voltage: 3, 000 volts rms.

TABLE I. Full-scale ranges.

Zero left	Zero Center	Zero left	Zero Center	Zero left	Zero Center
1	1-0-1	50	50-0-50	1	1-0-1
2	10-0-10	100	100-0-100	5	5-0-5
10	30-0-30	200	200-0-200	10	10-0-10
20	50-0-50	500	500-0-500	30	
30	100-0-100			50	
50	200-0-200				
100					
200					
300					
500					

Custodians:

Army - CR
Navy - SH
Air Force - 99
DLA - CC

Preparing activity:
DLA - CC

(Project 6625-0884)

Review activities:

Air Force - 11
Army - AR, AT, AV, CR4
Navy - MC